Low Voltage DC Motors

Model ZYT60 - ZYT120 DC MOTORS

The ZYT Permanent Magnet Motor series offers power up to 1.1kW with a range of voltage from 12V to 240V.

The most competitive DC geared motor on the market can be supplied with or without our ruggedized die-cast aluminium or composite material (high strength plastic) wormwheel gearboxes.

The new ZYT PM Motor range can be supplied with customised shafts to suit any application.

Options
- Voltage range 12V to 240V DC
- Range of speeds to suit application
- Output power up to 1.1kW

Applications include:
- Golf carts/Buggies/Go-carts
- Electric vehicles
- AGV’s
- Motorised shopping trollies
- Mobility vehicles
- Winches
- Hoists

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
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<td>4-M6</td>
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Options include:
- Customised shafts to suit any application
- Reversible Rotation
- Replaceable or Integral Brushes
- Class B or F Insulation
- High quality ball bearings
- Operating Temperature -20°C to +40°C
- Parking Brake 12V & 24V DC
- Sealed or Ventilated Housing
- Manual Released Brake Option
- Suitable for variable speed drives
- With Spade or Flying Leads and optional connectors

N.B. Motors supplied with IEC standard flanges B5, B14, etc.

N.B. Stall torque = 2.5 x continuous rated torque

<table>
<thead>
<tr>
<th>Torque Nm</th>
<th>Speed (rpm)</th>
<th>Current (A)</th>
<th>Power (Kw)</th>
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<td>2500±10%</td>
<td>6.5</td>
<td>0.1</td>
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<tr>
<td>0.4</td>
<td>2500±10%</td>
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<tr>
<td>0.5</td>
<td>3200±10%</td>
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<td>2800±10%</td>
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Individual detailed drawings available on request

N.B. Motors supplied with IEC standard flanges B5, B14, etc.

N.B. All dimensions in millimetres

MCP reserve the right to change specifications
MCP Series  Wormwheel Gearboxes

The most competitive ruggedised wormwheel gearboxes on the market can be supplied with or without AC/DC motors.

A quality, high power to weight ratio, low noise and reliable gearbox is robustly constructed in either ruggedised die-cast aluminium or composite materials (high strength plastic) make MCP gearboxes the obvious first choice.

Features and Options

• Compatible with ZYT DC Series Motors
• Extensive Range of Ratios
• Customised shafts to suit any application including:-
  - Variable Diameters
  - Hollow shafts
  - Machined ends
• Delrin®, Phosphor Bronze and Steel Gears
• Available in ruggedised die-cast aluminium or composite materials (high strength plastic)
• Lubricated for life
• Designed for Low Noise operation

Ratios:
12:1, 25:1, 30:1, 50:1, 60:1

Other ratios available on request

Shaft Diameter  Maximum Ø verhang (X)
20mm  90mm
25mm  140mm

Shaft Diameter  Maximum Ø verhang (X)
15mm  70mm
20mm  90mm

ZYT Motor/Gearbox Configurator

<table>
<thead>
<tr>
<th>Motor Dia in mm</th>
<th>Motor Length in mm</th>
<th>Volt. DC</th>
<th>Gearbox Ratio</th>
<th>Option One</th>
<th>Option Two</th>
<th>Option Three</th>
<th>Option Four</th>
<th>Option Five</th>
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<td>DR</td>
<td>BK</td>
<td>EC</td>
<td>CS##</td>
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Key:
AD = Die-cast Aluminium Housing
CM = Composite Material Housing (high strength plastic)
DR = Delrin® Gears
BZ = Bronze Gears
ST = Steel Gears
BK = Electric Brake
MRB = Electric Brake with Manual Release
EC = Rubber End Cover
CS = Custom Shaft followed by customer number

Example:
ZYT80 147 24 MCP4 25:1 AD DR MRB EC CS##

See Separate Motor Chart for Specifications

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